

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference DPFC 135255 MJ	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/09993	International filing date (day/month/year) 04/09/2003	(Earliest) Priority Date (day/month/year) 04/09/2002
Applicant RAISIO CHEMICALS LTD.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/09993

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08L29/14 C08L33/08 C08L25/08 D21H19/20 D21H19/56

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08L D21H C09D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 559 175 A (KROGGEL MATTHIAS ET AL) 24 September 1996 (1996-09-24) column 8, line 29 - line 65; claims 1,12 ---	1-9
A	US 6 121 349 A (FISCHER HANNES ET AL) 19 September 2000 (2000-09-19) column 4, line 50 - line 52 abstract ---	1-9
A	EP 0 437 624 A (DAINIPPON PRINTING CO LTD) 24 July 1991 (1991-07-24) claims 1-4 ---	1-9
A	US 6 407 197 B1 (MAASSEN MATHIJS H G ET AL) 18 June 2002 (2002-06-18) column 5, line 16 -column 6, line 17; claims 1,2,12-15 --- -/-	1-9

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

° Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

27 January 2004

Date of mailing of the international search report

13 FEB 2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

BARBRO NILSSON / ELY

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/09993

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 290 931 A (NOELKEN ERNST ET AL) 22 September 1981 (1981-09-22) column 1, line 32 - line 50; claims 1,6-13 ---	1-9
A	FR 2 795 076 A (ATOFINA) 22 December 2000 (2000-12-22) abstract ---	1-9
A	US 3 259 596 A (BRIAN WOOTTON DAVID ET AL) 5 July 1966 (1966-07-05) column 1 ---	1-9
P,A	WO 03 029560 A (MIETTINEN PAEIVI ;RAISIO CHEMICALS LTD (FI); TAMMI ANNA-LIISA (FI)) 10 April 2003 (2003-04-10) claims -----	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/09993

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5559175	A	24-09-1996	DE 4235151 A1 AT 162812 T DE 59308063 D1 EP 0594026 A2 FI 934563 A JP 6206930 A MX 9306476 A1 NO 933745 A	21-04-1994 15-02-1998 05-03-1998 27-04-1994 20-04-1994 26-07-1994 30-06-1994 20-04-1994
US 6121349	A	19-09-2000	DE 19640731 A1 EP 0834520 A2 JP 10139812 A TW 387918 B	16-04-1998 08-04-1998 26-05-1998 21-04-2000
EP 0437624	A	24-07-1991	DE 69012978 D1 DE 69012978 T2 EP 0437624 A1 EP 0593103 A1 WO 9102249 A1 JP 3170570 A US 5246664 A JP 2976344 B2 JP 3162956 A JP 2963171 B2 JP 3205561 A JP 2967542 B2 JP 3205562 A	03-11-1994 18-05-1995 24-07-1991 20-04-1994 21-02-1991 24-07-1991 21-09-1993 10-11-1999 12-07-1991 12-10-1999 09-09-1991 25-10-1999 09-09-1991
US 6407197	B1	18-06-2002	NL 1008469 C2 AU 2860699 A BR 9908462 A EP 1060197 A1 JP 2002505351 T WO 9945039 A1	07-09-1999 20-09-1999 14-11-2000 20-12-2000 19-02-2002 10-09-1999
US 4290931	A	22-09-1981	DE 2823301 A1 AR 223178 A1 AT 775 T AU 527644 B2 AU 4745479 A BR 7903320 A CA 1165921 A1 DE 2962327 D1 DK 219979 A EP 0005795 A1 ES 480845 A1 FI 791669 A ,B, IE 48417 B1 JP 1023495 B JP 1540493 C JP 54163940 A MX 150130 A NO 791750 A ,B, PT 69680 A US 4777197 A	13-12-1979 31-07-1981 15-04-1982 17-03-1983 06-12-1979 11-12-1979 17-04-1984 29-04-1982 30-11-1979 12-12-1979 01-12-1979 30-11-1979 09-01-1985 02-05-1989 31-01-1990 27-12-1979 19-03-1984 30-11-1979 01-06-1979 11-10-1988
FR 2795076	A	22-12-2000	FR 2795076 A1 AU 6449600 A	22-12-2000 09-01-2001

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/09993

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
FR 2795076	A	EP 1194454 A1 WO 0078818 A1 JP 2003502486 T	10-04-2002 28-12-2000 21-01-2003
US 3259596	A	05-07-1966 GB 948194 A BE 619443 A FR 1327509 A NL 280147 A	29-01-1964 17-05-1963
WO 03029560	A	10-04-2003 FI 20011932 A WO 03029560 A1	04-04-2003 10-04-2003